

Global GaN Modules Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global GaN Modules market size was valued at US\$ 3.9 million in 2024 and is forecast to a readjusted size of USD 142 million by 2031 with a CAGR of 57.6% during review period.

Like SiC (silicon carbide), GaN (gallium nitride) is a next-generation semiconductor material that is coming into the spotlight and finding a growing range of practical uses as a substitute for Si (silicon)—the longstanding mainstream of semiconductor materials. GaN is notable for superior switching performance. Its two most outstanding features, higher switching frequency and higher efficiency, combine to yield substantially reduced power losses. In addition to making it easy to reduce the size and increase the efficiency of power supply and motor drive circuits, as well as power converter and inverter systems, GaN is also attractive because it enables lower device production costs than SiC.

This report studies the GaN Modules, include GaN power modules and GaN IPM.

The typical products of GaN power modules include Infineon (GaN Systems) 650V 150A Full-Bridge Module and 650V 300A 3-Phase GaN Power Module.

The typical products of GaN IPM include Texas Instruments (TI)'s DRV7308.

Currently the GaN modules are in the stage of development, sample and promotion.

The global Power GaN Device market was valued at US\$ 341.3 million in 2024 and is anticipated to reach US\$ 3002.7 million by 2035, witnessing a CAGR of 21.01% during the forecast period 2025-2035.

Currently the GaN modules are in the stage of development, sample and promotion. According to our research, the global GaN Modules market was valued at US\$ 3.76 million in 2024 and is anticipated to reach US\$ 396 million by 2035, witnessing a CAGR of 46.05% during the forecast period 2025-2035.

According to our research, only Texas Instruments (TI) has started mass production of GaN Modules from 2024. Other manufacturers are currently in the stage of development, sample and promotion.

Currently The key manufacturers of GaN Modules include Texas Instruments (TI) , Kyocera AVX, QPT, Infineon (GaN Systems), Mitsubishi Electric (Vincotech), Fujitsu General Electronics Limited, Sensitron Semiconductor, and VisIC Technologies, etc.

GaN power devices have grown rapidly in recent years, and a large number of companies have gradually entered the industry. It is expected that GaN power devices market share will further increase in the next few years. At present, GaN power devices are dominated by Power Integrations, Inc., Navitas Semiconductor, Infineon (GaN Systems), Efficient Power Conversion Corporation (EPC), Innoscience, and Renesas Electronics (Transphorm), among which Innoscience is the world's largest GaN power device manufacturer.

In the next few years, GaN modules are expected to grow rapidly, with broad development potential in the fields of motor control, photovoltaic inverters, new energy vehicles, home appliances, UPS/servers, etc.

This report is a detailed and comprehensive analysis for global GaN Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global GaN Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global GaN Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global GaN Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global GaN Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for GaN Modules

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global GaN Modules market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Texas Instruments (TI), Kyocera AVX, QPT, Infineon (GaN Systems), Mitsubishi Electric (Vincotech), Fujitsu General Electronics Limited, Sensitron Semiconductor, NJSM Electronics, VisIC Technologies, X-IPM Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

GaN Modules market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

GaN Power Module

GaN Intelligent Power Module (IPM)

Market segment by Application

Home Appliances/Consumer

Servers/UPS

Solar Inverters

Motor Drives

Electric Vehicles (EVs)

HVAC

Others

Major players covered

Texas Instruments (TI)

Kyocera AVX

QPT

Infineon (GaN Systems)

Mitsubishi Electric (Vincotech)

Fujitsu General Electronics Limited

Sensitron Semiconductor

NJSM Electronics

VisIC Technologies

X-IPM Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe GaN Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN Modules, with price, sales quantity, revenue, and global market share of GaN Modules from 2020 to 2025.

Chapter 3, the GaN Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and GaN Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of GaN Modules.

Chapter 14 and 15, to describe GaN Modules sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global GaN Modules Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 GaN Power Module

1.3.3 GaN Intelligent Power Module (IPM)

1.4 Market Analysis by Application

1.4.1 Overview: Global GaN Modules Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Home Appliances/Consumer

1.4.3 Servers/UPS

1.4.4 Solar Inverters

1.4.5 Motor Drives

1.4.6 Electric Vehicles (EVs)

1.4.7 HVAC

1.4.8 Others

1.5 Global GaN Modules Market Size & Forecast

1.5.1 Global GaN Modules Consumption Value (2020 & 2024 & 2031)

1.5.2 Global GaN Modules Sales Quantity (2020-2031)

1.5.3 Global GaN Modules Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Texas Instruments (TI)

2.1.1 Texas Instruments (TI) Details

2.1.2 Texas Instruments (TI) Major Business

2.1.3 Texas Instruments (TI) GaN Modules Product and Services

2.1.4 Texas Instruments (TI) GaN Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Texas Instruments (TI) Recent Developments/Updates

2.2 Kyocera AVX

2.2.1 Kyocera AVX Details

2.2.2 Kyocera AVX Major Business

2.2.3 Kyocera AVX GaN Modules Product and Services

2.2.4 Kyocera AVX GaN Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Kyocera AVX Recent Developments/Updates

2.3 QPT

2.3.1 QPT Details

2.3.2 QPT Major Business

2.3.3 QPT GaN Modules Product and Services

2.3.4 QPT GaN Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 QPT Recent Developments/Updates

2.4 Infineon (GaN Systems)

2.4.1 Infineon (GaN Systems) Details

2.4.2 Infineon (GaN Systems) Major Business

2.4.3 Infineon (GaN Systems) GaN Modules Product and Services

2.4.4 Infineon (GaN Systems) GaN Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Infineon (GaN Systems) Recent Developments/Updates

2.5 Mitsubishi Electric (Vincotech)

2.5.1 Mitsubishi Electric (Vincotech) Details

2.5.2 Mitsubishi Electric (Vincotech) Major Business

2.5.3 Mitsubishi Electric (Vincotech) GaN Modules Product and Services

2.5.4 Mitsubishi Electric (Vincotech) GaN Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Mitsubishi Electric (Vincotech) Recent Developments/Updates

2.6 Fujitsu General Electronics Limited

2.6.1 Fujitsu General Electronics Limited Details

2.6.2 Fujitsu General Electronics Limited Major Business

2.6.3 Fujitsu General Electronics Limited GaN Modules Product and Services

2.6.4 Fujitsu General Electronics Limited GaN Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Fujitsu General Electronics Limited Recent Developments/Updates

2.7 Sensitron Semiconductor

2.7.1 Sensitron Semiconductor Details

2.7.2 Sensitron Semiconductor Major Business

2.7.3 Sensitron Semiconductor GaN Modules Product and Services

2.7.4 Sensitron Semiconductor GaN Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Sensitron Semiconductor Recent Developments/Updates

2.8 NJSM Electronics

- 2.8.1 NJSM Electronics Details
- 2.8.2 NJSM Electronics Major Business
- 2.8.3 NJSM Electronics GaN Modules Product and Services
- 2.8.4 NJSM Electronics GaN Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 NJSM Electronics Recent Developments/Updates
- 2.9 VisIC Technologies
 - 2.9.1 VisIC Technologies Details
 - 2.9.2 VisIC Technologies Major Business
 - 2.9.3 VisIC Technologies GaN Modules Product and Services
 - 2.9.4 VisIC Technologies GaN Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 VisIC Technologies Recent Developments/Updates
- 2.10 X-IPM Technology
 - 2.10.1 X-IPM Technology Details
 - 2.10.2 X-IPM Technology Major Business
 - 2.10.3 X-IPM Technology GaN Modules Product and Services
 - 2.10.4 X-IPM Technology GaN Modules Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 X-IPM Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: GAN MODULES BY MANUFACTURER

- 3.1 Global GaN Modules Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global GaN Modules Revenue by Manufacturer (2020-2025)
- 3.3 Global GaN Modules Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of GaN Modules by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 GaN Modules Manufacturer Market Share in 2024
 - 3.4.3 Top 6 GaN Modules Manufacturer Market Share in 2024
- 3.5 GaN Modules Market: Overall Company Footprint Analysis
 - 3.5.1 GaN Modules Market: Region Footprint
 - 3.5.2 GaN Modules Market: Company Product Type Footprint
 - 3.5.3 GaN Modules Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global GaN Modules Market Size by Region

- 4.1.1 Global GaN Modules Sales Quantity by Region (2020-2031)
- 4.1.2 Global GaN Modules Consumption Value by Region (2020-2031)
- 4.1.3 Global GaN Modules Average Price by Region (2020-2031)
- 4.2 North America GaN Modules Consumption Value (2020-2031)
- 4.3 Europe GaN Modules Consumption Value (2020-2031)
- 4.4 Asia-Pacific GaN Modules Consumption Value (2020-2031)
- 4.5 South America GaN Modules Consumption Value (2020-2031)
- 4.6 Middle East & Africa GaN Modules Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global GaN Modules Sales Quantity by Type (2020-2031)
- 5.2 Global GaN Modules Consumption Value by Type (2020-2031)
- 5.3 Global GaN Modules Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global GaN Modules Sales Quantity by Application (2020-2031)
- 6.2 Global GaN Modules Consumption Value by Application (2020-2031)
- 6.3 Global GaN Modules Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America GaN Modules Sales Quantity by Type (2020-2031)
- 7.2 North America GaN Modules Sales Quantity by Application (2020-2031)
- 7.3 North America GaN Modules Market Size by Country
 - 7.3.1 North America GaN Modules Sales Quantity by Country (2020-2031)
 - 7.3.2 North America GaN Modules Consumption Value by Country (2020-2031)
 - 7.3.3 United States Market Size and Forecast (2020-2031)
 - 7.3.4 Canada Market Size and Forecast (2020-2031)
 - 7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe GaN Modules Sales Quantity by Type (2020-2031)
- 8.2 Europe GaN Modules Sales Quantity by Application (2020-2031)
- 8.3 Europe GaN Modules Market Size by Country

- 8.3.1 Europe GaN Modules Sales Quantity by Country (2020-2031)
- 8.3.2 Europe GaN Modules Consumption Value by Country (2020-2031)
- 8.3.3 Germany Market Size and Forecast (2020-2031)
- 8.3.4 France Market Size and Forecast (2020-2031)
- 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
- 8.3.6 Russia Market Size and Forecast (2020-2031)
- 8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific GaN Modules Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific GaN Modules Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific GaN Modules Market Size by Region
 - 9.3.1 Asia-Pacific GaN Modules Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific GaN Modules Consumption Value by Region (2020-2031)
 - 9.3.3 China Market Size and Forecast (2020-2031)
 - 9.3.4 Japan Market Size and Forecast (2020-2031)
 - 9.3.5 South Korea Market Size and Forecast (2020-2031)
 - 9.3.6 India Market Size and Forecast (2020-2031)
 - 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
 - 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America GaN Modules Sales Quantity by Type (2020-2031)
- 10.2 South America GaN Modules Sales Quantity by Application (2020-2031)
- 10.3 South America GaN Modules Market Size by Country
 - 10.3.1 South America GaN Modules Sales Quantity by Country (2020-2031)
 - 10.3.2 South America GaN Modules Consumption Value by Country (2020-2031)
 - 10.3.3 Brazil Market Size and Forecast (2020-2031)
 - 10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa GaN Modules Sales Quantity by Type (2020-2031)
- 11.2 Middle East & Africa GaN Modules Sales Quantity by Application (2020-2031)
- 11.3 Middle East & Africa GaN Modules Market Size by Country
 - 11.3.1 Middle East & Africa GaN Modules Sales Quantity by Country (2020-2031)
 - 11.3.2 Middle East & Africa GaN Modules Consumption Value by Country (2020-2031)

- 11.3.3 Turkey Market Size and Forecast (2020-2031)
- 11.3.4 Egypt Market Size and Forecast (2020-2031)
- 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)
- 11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

- 12.1 GaN Modules Market Drivers
- 12.2 GaN Modules Market Restraints
- 12.3 GaN Modules Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of GaN Modules and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of GaN Modules
- 13.3 GaN Modules Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 GaN Modules Typical Distributors
- 14.3 GaN Modules Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global GaN Modules Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global GaN Modules Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Texas Instruments (TI) Basic Information, Manufacturing Base and Competitors

Table 4. Texas Instruments (TI) Major Business

Table 5. Texas Instruments (TI) GaN Modules Product and Services

Table 6. Texas Instruments (TI) GaN Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Texas Instruments (TI) Recent Developments/Updates

Table 8. Kyocera AVX Basic Information, Manufacturing Base and Competitors

Table 9. Kyocera AVX Major Business

Table 10. Kyocera AVX GaN Modules Product and Services

Table 11. Kyocera AVX GaN Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Kyocera AVX Recent Developments/Updates

Table 13. QPT Basic Information, Manufacturing Base and Competitors

Table 14. QPT Major Business

Table 15. QPT GaN Modules Product and Services

Table 16. QPT GaN Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. QPT Recent Developments/Updates

Table 18. Infineon (GaN Systems) Basic Information, Manufacturing Base and Competitors

Table 19. Infineon (GaN Systems) Major Business

Table 20. Infineon (GaN Systems) GaN Modules Product and Services

Table 21. Infineon (GaN Systems) GaN Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Infineon (GaN Systems) Recent Developments/Updates

Table 23. Mitsubishi Electric (Vincotech) Basic Information, Manufacturing Base and Competitors

Table 24. Mitsubishi Electric (Vincotech) Major Business

Table 25. Mitsubishi Electric (Vincotech) GaN Modules Product and Services

Table 26. Mitsubishi Electric (Vincotech) GaN Modules Sales Quantity (K Units),

Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Mitsubishi Electric (Vincotech) Recent Developments/Updates

Table 28. Fujitsu General Electronics Limited Basic Information, Manufacturing Base and Competitors

Table 29. Fujitsu General Electronics Limited Major Business

Table 30. Fujitsu General Electronics Limited GaN Modules Product and Services

Table 31. Fujitsu General Electronics Limited GaN Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Fujitsu General Electronics Limited Recent Developments/Updates

Table 33. Sensitron Semiconductor Basic Information, Manufacturing Base and Competitors

Table 34. Sensitron Semiconductor Major Business

Table 35. Sensitron Semiconductor GaN Modules Product and Services

Table 36. Sensitron Semiconductor GaN Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Sensitron Semiconductor Recent Developments/Updates

Table 38. NJSM Electronics Basic Information, Manufacturing Base and Competitors

Table 39. NJSM Electronics Major Business

Table 40. NJSM Electronics GaN Modules Product and Services

Table 41. NJSM Electronics GaN Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. NJSM Electronics Recent Developments/Updates

Table 43. VisiC Technologies Basic Information, Manufacturing Base and Competitors

Table 44. VisiC Technologies Major Business

Table 45. VisiC Technologies GaN Modules Product and Services

Table 46. VisiC Technologies GaN Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. VisiC Technologies Recent Developments/Updates

Table 48. X-IPM Technology Basic Information, Manufacturing Base and Competitors

Table 49. X-IPM Technology Major Business

Table 50. X-IPM Technology GaN Modules Product and Services

Table 51. X-IPM Technology GaN Modules Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. X-IPM Technology Recent Developments/Updates

Table 53. Global GaN Modules Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 54. Global GaN Modules Revenue by Manufacturer (2020-2025) & (USD Million)

Table 55. Global GaN Modules Average Price by Manufacturer (2020-2025) &

(US\$/Unit)

Table 56. Market Position of Manufacturers in GaN Modules, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 57. Head Office and GaN Modules Production Site of Key Manufacturer

Table 58. GaN Modules Market: Company Product Type Footprint

Table 59. GaN Modules Market: Company Product Application Footprint

Table 60. GaN Modules New Market Entrants and Barriers to Market Entry

Table 61. GaN Modules Mergers, Acquisition, Agreements, and Collaborations

Table 62. Global GaN Modules Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 63. Global GaN Modules Sales Quantity by Region (2020-2025) & (K Units)

Table 64. Global GaN Modules Sales Quantity by Region (2026-2031) & (K Units)

Table 65. Global GaN Modules Consumption Value by Region (2020-2025) & (USD Million)

Table 66. Global GaN Modules Consumption Value by Region (2026-2031) & (USD Million)

Table 67. Global GaN Modules Average Price by Region (2020-2025) & (US\$/Unit)

Table 68. Global GaN Modules Average Price by Region (2026-2031) & (US\$/Unit)

Table 69. Global GaN Modules Sales Quantity by Type (2020-2025) & (K Units)

Table 70. Global GaN Modules Sales Quantity by Type (2026-2031) & (K Units)

Table 71. Global GaN Modules Consumption Value by Type (2020-2025) & (USD Million)

Table 72. Global GaN Modules Consumption Value by Type (2026-2031) & (USD Million)

Table 73. Global GaN Modules Average Price by Type (2020-2025) & (US\$/Unit)

Table 74. Global GaN Modules Average Price by Type (2026-2031) & (US\$/Unit)

Table 75. Global GaN Modules Sales Quantity by Application (2020-2025) & (K Units)

Table 76. Global GaN Modules Sales Quantity by Application (2026-2031) & (K Units)

Table 77. Global GaN Modules Consumption Value by Application (2020-2025) & (USD Million)

Table 78. Global GaN Modules Consumption Value by Application (2026-2031) & (USD Million)

Table 79. Global GaN Modules Average Price by Application (2020-2025) & (US\$/Unit)

Table 80. Global GaN Modules Average Price by Application (2026-2031) & (US\$/Unit)

Table 81. North America GaN Modules Sales Quantity by Type (2020-2025) & (K Units)

Table 82. North America GaN Modules Sales Quantity by Type (2026-2031) & (K Units)

Table 83. North America GaN Modules Sales Quantity by Application (2020-2025) & (K Units)

Table 84. North America GaN Modules Sales Quantity by Application (2026-2031) & (K

Units)

Table 85. North America GaN Modules Sales Quantity by Country (2020-2025) & (K Units)

Table 86. North America GaN Modules Sales Quantity by Country (2026-2031) & (K Units)

Table 87. North America GaN Modules Consumption Value by Country (2020-2025) & (USD Million)

Table 88. North America GaN Modules Consumption Value by Country (2026-2031) & (USD Million)

Table 89. Europe GaN Modules Sales Quantity by Type (2020-2025) & (K Units)

Table 90. Europe GaN Modules Sales Quantity by Type (2026-2031) & (K Units)

Table 91. Europe GaN Modules Sales Quantity by Application (2020-2025) & (K Units)

Table 92. Europe GaN Modules Sales Quantity by Application (2026-2031) & (K Units)

Table 93. Europe GaN Modules Sales Quantity by Country (2020-2025) & (K Units)

Table 94. Europe GaN Modules Sales Quantity by Country (2026-2031) & (K Units)

Table 95. Europe GaN Modules Consumption Value by Country (2020-2025) & (USD Million)

Table 96. Europe GaN Modules Consumption Value by Country (2026-2031) & (USD Million)

Table 97. Asia-Pacific GaN Modules Sales Quantity by Type (2020-2025) & (K Units)

Table 98. Asia-Pacific GaN Modules Sales Quantity by Type (2026-2031) & (K Units)

Table 99. Asia-Pacific GaN Modules Sales Quantity by Application (2020-2025) & (K Units)

Table 100. Asia-Pacific GaN Modules Sales Quantity by Application (2026-2031) & (K Units)

Table 101. Asia-Pacific GaN Modules Sales Quantity by Region (2020-2025) & (K Units)

Table 102. Asia-Pacific GaN Modules Sales Quantity by Region (2026-2031) & (K Units)

Table 103. Asia-Pacific GaN Modules Consumption Value by Region (2020-2025) & (USD Million)

Table 104. Asia-Pacific GaN Modules Consumption Value by Region (2026-2031) & (USD Million)

Table 105. South America GaN Modules Sales Quantity by Type (2020-2025) & (K Units)

Table 106. South America GaN Modules Sales Quantity by Type (2026-2031) & (K Units)

Table 107. South America GaN Modules Sales Quantity by Application (2020-2025) & (K Units)

Table 108. South America GaN Modules Sales Quantity by Application (2026-2031) & (K Units)

Table 109. South America GaN Modules Sales Quantity by Country (2020-2025) & (K Units)

Table 110. South America GaN Modules Sales Quantity by Country (2026-2031) & (K Units)

Table 111. South America GaN Modules Consumption Value by Country (2020-2025) & (USD Million)

Table 112. South America GaN Modules Consumption Value by Country (2026-2031) & (USD Million)

Table 113. Middle East & Africa GaN Modules Sales Quantity by Type (2020-2025) & (K Units)

Table 114. Middle East & Africa GaN Modules Sales Quantity by Type (2026-2031) & (K Units)

Table 115. Middle East & Africa GaN Modules Sales Quantity by Application (2020-2025) & (K Units)

Table 116. Middle East & Africa GaN Modules Sales Quantity by Application (2026-2031) & (K Units)

Table 117. Middle East & Africa GaN Modules Sales Quantity by Country (2020-2025) & (K Units)

Table 118. Middle East & Africa GaN Modules Sales Quantity by Country (2026-2031) & (K Units)

Table 119. Middle East & Africa GaN Modules Consumption Value by Country (2020-2025) & (USD Million)

Table 120. Middle East & Africa GaN Modules Consumption Value by Country (2026-2031) & (USD Million)

Table 121. GaN Modules Raw Material

Table 122. Key Manufacturers of GaN Modules Raw Materials

Table 123. GaN Modules Typical Distributors

Table 124. GaN Modules Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. GaN Modules Picture

Figure 2. Global GaN Modules Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global GaN Modules Revenue Market Share by Type in 2024

Figure 4. GaN Power Module Examples

Figure 5. GaN Intelligent Power Module (IPM) Examples

Figure 6. Global GaN Modules Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global GaN Modules Revenue Market Share by Application in 2024

Figure 8. Home Appliances/Consumer Examples

Figure 9. Servers/UPS Examples

Figure 10. Solar Inverters Examples

Figure 11. Motor Drives Examples

Figure 12. Electric Vehicles (EVs) Examples

Figure 13. HVAC Examples

Figure 14. Others Examples

Figure 15. Global GaN Modules Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 16. Global GaN Modules Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 17. Global GaN Modules Sales Quantity (2020-2031) & (K Units)

Figure 18. Global GaN Modules Price (2020-2031) & (US\$/Unit)

Figure 19. Global GaN Modules Sales Quantity Market Share by Manufacturer in 2024

Figure 20. Global GaN Modules Revenue Market Share by Manufacturer in 2024

Figure 21. Producer Shipments of GaN Modules by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 22. Top 3 GaN Modules Manufacturer (Revenue) Market Share in 2024

Figure 23. Top 6 GaN Modules Manufacturer (Revenue) Market Share in 2024

Figure 24. Global GaN Modules Sales Quantity Market Share by Region (2020-2031)

Figure 25. Global GaN Modules Consumption Value Market Share by Region (2020-2031)

Figure 26. North America GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 27. Europe GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 28. Asia-Pacific GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 29. South America GaN Modules Consumption Value (2020-2031) & (USD Million)

Million)

Figure 30. Middle East & Africa GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 31. Global GaN Modules Sales Quantity Market Share by Type (2020-2031)

Figure 32. Global GaN Modules Consumption Value Market Share by Type (2020-2031)

Figure 33. Global GaN Modules Average Price by Type (2020-2031) & (US\$/Unit)

Figure 34. Global GaN Modules Sales Quantity Market Share by Application (2020-2031)

Figure 35. Global GaN Modules Revenue Market Share by Application (2020-2031)

Figure 36. Global GaN Modules Average Price by Application (2020-2031) & (US\$/Unit)

Figure 37. North America GaN Modules Sales Quantity Market Share by Type (2020-2031)

Figure 38. North America GaN Modules Sales Quantity Market Share by Application (2020-2031)

Figure 39. North America GaN Modules Sales Quantity Market Share by Country (2020-2031)

Figure 40. North America GaN Modules Consumption Value Market Share by Country (2020-2031)

Figure 41. United States GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 42. Canada GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 43. Mexico GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 44. Europe GaN Modules Sales Quantity Market Share by Type (2020-2031)

Figure 45. Europe GaN Modules Sales Quantity Market Share by Application (2020-2031)

Figure 46. Europe GaN Modules Sales Quantity Market Share by Country (2020-2031)

Figure 47. Europe GaN Modules Consumption Value Market Share by Country (2020-2031)

Figure 48. Germany GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 49. France GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 50. United Kingdom GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 51. Russia GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 52. Italy GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 53. Asia-Pacific GaN Modules Sales Quantity Market Share by Type (2020-2031)

Figure 54. Asia-Pacific GaN Modules Sales Quantity Market Share by Application (2020-2031)

Figure 55. Asia-Pacific GaN Modules Sales Quantity Market Share by Region

(2020-2031)

Figure 56. Asia-Pacific GaN Modules Consumption Value Market Share by Region (2020-2031)

Figure 57. China GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 58. Japan GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 59. South Korea GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 60. India GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 61. Southeast Asia GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 62. Australia GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 63. South America GaN Modules Sales Quantity Market Share by Type (2020-2031)

Figure 64. South America GaN Modules Sales Quantity Market Share by Application (2020-2031)

Figure 65. South America GaN Modules Sales Quantity Market Share by Country (2020-2031)

Figure 66. South America GaN Modules Consumption Value Market Share by Country (2020-2031)

Figure 67. Brazil GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 68. Argentina GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 69. Middle East & Africa GaN Modules Sales Quantity Market Share by Type (2020-2031)

Figure 70. Middle East & Africa GaN Modules Sales Quantity Market Share by Application (2020-2031)

Figure 71. Middle East & Africa GaN Modules Sales Quantity Market Share by Country (2020-2031)

Figure 72. Middle East & Africa GaN Modules Consumption Value Market Share by Country (2020-2031)

Figure 73. Turkey GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 74. Egypt GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 75. Saudi Arabia GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 76. South Africa GaN Modules Consumption Value (2020-2031) & (USD Million)

Figure 77. GaN Modules Market Drivers

Figure 78. GaN Modules Market Restraints

Figure 79. GaN Modules Market Trends

Figure 80. PortersFive Forces Analysis

Figure 81. Manufacturing Cost Structure Analysis of GaN Modules in 2024

Figure 82. Manufacturing Process Analysis of GaN Modules

Figure 83. GaN Modules Industrial Chain

Figure 84. Sales Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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